

09/697186
STN Search Summary

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FILE 'CAPLUS' ENTERED AT 10:33:52 ON 28 AUG 2002

L1 1907 S (KANAMYCIN? (S) RESIST? (S) GENE?)
L2 44 S L1 (P) THERM?
L3 16 S L1 AND REVIEW
L4 16 S L1 AND REVIEW/DT
L5 44 S L2 NOT L4
L6 106 S L1 (P) (THERM? OR TEMPERATURE?)
L7 62 S L6 NOT L2
L8 38 S L7 AND (TEMPERATUR? (S) SENSITI?)

L4 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2002 ACS
AN 2001:765914 CAPLUS
TI Molecular basis of aminoglycoside resistance in Mycobacterium
AU Afnsa, Jose A.; Martin, Carlos
SO Recent Research Developments in Antimicrobial Agents & Chemotherapy
(2000), 4(Pt. 1), 1-10

L4 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2002 ACS
AN 2001:587777 CAPLUS
TI Diagnosis of anti-mycobacterial drug resistance of Tubercle bacillus by
DNA chips
AU Suzuki, Yasuhiko; Ichihara, Tatsuo; Tamaru, Aki; Ruhul, Amin; Katsukawa,
Chihiro; Makino, Masanao; Abe, Chiyoji
SO DNA Chippu Oyo Gijutsu (2000), 159-170. Editor(s): Matsunaga, Tadashi.

L4 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2002 ACS
AN 1993:56099 CAPLUS
TI Biosafety of kanamycin-resistant transgenic plants
AU Nap, Jan Peter; Bijvoet, Jacques; Stiekema, Willem J.
SO Transgenic Res. (1992), 1(6), 239-49

L4 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2002 ACS
AN 1989:420547 CAPLUS
TI Analyzing the molecular components of bacterial aminoglycoside resistance
AU Berlin, Michael H.
SO SAAS Bull. Biochem. Biotechnol. (1989), 2, 62-6

L5 ANSWER 2 OF 44 CAPLUS COPYRIGHT 2002 ACS
AN 2001:759391 CAPLUS
TI Disruption of Thermus thermophilus genes by
homologous recombination using a thermostable kanamycin
-resistant marker
AU Hashimoto, Y.; Yano, T.; Kuramitsu, S.; Kagamiyama, H.
SO FEBS Letters (2001), 506(3), 231-234

L5 ANSWER 8 OF 44 CAPLUS COPYRIGHT 2002 ACS
AN 2001:328733 CAPLUS
TI Kanamycin nucleotidyltransferase thermostable mutants and use as
selectable marker for screening of thermophilic bacteria using it
IN Yokoyama, Shigeyuki; Hoseki, Jun; Yano, Takato; Koyama, Yoshinori;
Kuramitsu, Shigenori; Kagamiyama, Hiroyuki
SO Jpn. Kokai Tokkyo Koho, 15 pp.
LA Japanese

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001120278	A2	20010508	JP 1999-309616	19991029
	EP 1097990	A2	20010509	EP 2000-309475	20001027
	EP 1097990	A3	20010516		
PRAI	JP 1999-309616	A	19991029		

L5 ANSWER 9 OF 44 CAPLUS COPYRIGHT 2002 ACS
AN 2000:798869 CAPLUS
TI Advances in development of a genetic system for Thermoanaerobacterium
spp.: expression of genes encoding hydrolytic enzymes, development of a
second shuttle vector, and integration of genes into the chromosome
AU Mai, Volker; Wiegel, Juergen
SO Applied and Environmental Microbiology (2000), 66(11), 4817-4821

L5 ANSWER 11 OF 44 CAPLUS COPYRIGHT 2002 ACS
AN 2000:212904 CAPLUS
TI Expression of Clostridium thermocellum endoglucanase gene in Lactobacillus
gasseri and Lactobacillus johnsonii and characterization of the
genetically modified probiotic Lactobacilli
AU Cho, Jaie-Soon; Choi, Yun-Jaie; Chung, Dae-Kyun
SO Current Microbiology (2000), 40(4), 257-263

L5 ANSWER 12 OF 44 CAPLUS COPYRIGHT 2002 ACS
AN 2000:116093 CAPLUS
TI Gene replacement in Gram-negative bacteria: the pMAKSAC vectors
AU Favre, Didier; Viret, Jean-Francois
SO BioTechniques (2000), 28(2), 198, 200, 202, 204

L5 ANSWER 13 OF 44 CAPLUS COPYRIGHT 2002 ACS
AN 1999:813089 CAPLUS
TI Directed evolution of thermostable kanamycin-
resistance gene: A convenient selection marker for
Thermus thermophilus
AU Hoseki, Jun; Yano, Takato; Koyama, Yoshinori; Kuramitsu, Seiki;
Kagamiyama, Hiroyuki
SO Journal of Biochemistry (Tokyo) (1999), 126(5), 951-956

L5 ANSWER 14 OF 44 CAPLUS COPYRIGHT 2002 ACS
AN 1999:697645 CAPLUS
TI A High-Transformation-Efficiency Cloning Vector for Thermus thermophilus
AU de Grado, Myriam; Castan, Pablo; Berenguer, Jose
SO Plasmid (1999), 42(3), 241-245

L5 ANSWER 16 OF 44 CAPLUS COPYRIGHT 2002 ACS
 AN 1998:519838 CAPLUS
 TI Thermophile gene transfer using a chromosomal
 gene and a thermostable derivative of the
 kanamycin-resistance gene
 IN Weber, J. Mark; Demirjian, David C.; Casadaban, Malcolm J.; Pagratis,
 Nikos C.; Vonstein, Veronika
 SO U.S., 24 pp., Cont. of U.S. Ser. No. 265,522, abandoned.
 PATENT NO. KIND DATE APPLICATION NO. DATE

 PI US 5786174 A 19980728 US 1997-790309 19970128
 US 5872238 A 19990216 US 1997-912794 19970818
 US 6350591 B1 20020226 US 1999-250585 19990216
 PRAI US 1994-265522 B1 19940624
 US 1995-496932 B1 19950630
 US 1997-912794 A1 19970818

L5 ANSWER 17 OF 44 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:785550 CAPLUS
 TI Molecular cloning and sequence analysis of the lysR gene from the
 extremely thermophilic eubacterium, Thermus thermophilus HB27
 AU Kosuge, Takehide; Hoshino, Takayuki
 SO FEMS Microbiology Letters (1997), 157(1), 73-79

L5 ANSWER 18 OF 44 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:504779 CAPLUS
 TI Identification of a thermophilic plasmid origin and its cloning within a
 new Thermus-E. coli shuttle vector
 AU Wayne, Jay; Xu, Shuang-yong
 SO Gene (1997), 195(2), 321-328

L5 ANSWER 19 OF 44 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:177719 CAPLUS
 TI Transformation of Thermoanaerobacterium sp. strain JW/SL-YS485 with
 plasmid pIKM1 conferring kanamycin resistance
 AU Mai, Volker; Lorenz, W. Walter; Wiegel, Juergen
 SO FEMS Microbiology Letters (1997), 148(2), 163-167

L5 ANSWER 20 OF 44 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:24482 CAPLUS
 TI Fusion with ribosomal protein L32 increased the in vivo thermostability of
 kanamycin nucleotidyltransferase in Thermus thermophilus
 AU Maseda, Hideaki; Hoshino, Takayuki
 SO Journal of Fermentation and Bioengineering (1996), 82(6), 525-530

L5 ANSWER 21 OF 44 CAPLUS COPYRIGHT 2002 ACS
 AN 1996:307485 CAPLUS
 TI Plasmid vector containing DNA fragment for replication of cryptic plasmids
 of Thermus and kanamycin resistance marker
 for genetic engineering in Thermus
 IN Hoshino, Takayuki; Nakahara, Tadaatsu
 PA Mitsubishi Chem Corp, Japan
 LA Japanese
 PATENT NO. KIND DATE APPLICATION NO. DATE

 PI JP 08070869 A2 19960319 JP 1994-210154 19940902

L5 ANSWER 23 OF 44 CAPLUS COPYRIGHT 2002 ACS
 AN 1995:652530 CAPLUS
 TI A chimeric gene which can confer thermostable
 kanamycin resistance upon thermophilic
 bacteria in the genus Thermus
 IN Lasa Uzcudun, Inigo; Fernandez Herrero, Luis Angel; De Grado Sanz, Myriam;
 Berenger Carlos, Jose
 PA Universidad Autonoma de Madrid, Spain
 DT Patent
 LA Spanish

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI ES 2067414	A1	19950316	ES 1993-1522	19930707
ES 2067414	B1	19950916		

L5 ANSWER 24 OF 44 CAPLUS COPYRIGHT 2002 ACS
 AN 1995:554576 CAPLUS
 TI Screening and analysis of DNA fragments that show promoter activities in
 Thermus thermophilus
 AU Maseda, Hideaki; Hoshino, Takayuki
 SO FEMS Microbiol. Lett. (1995), 128(2), 127-34

L5 ANSWER 25 OF 44 CAPLUS COPYRIGHT 2002 ACS
 AN 1995:411146 CAPLUS
 TI A chromosome integration system for stable gene transfer into Thermus
 flavus
 AU Weber, J. Mark; Johnson, Scot P.; Vonstein, Veronika; Casadaban, Malcolm
 J.; Demirjian, David C.
 SO Bio/Technology (1995), 13(3), 271-5

L5 ANSWER 27 OF 44 CAPLUS COPYRIGHT 2002 ACS
 AN 1994:49904 CAPLUS
 TI Plasmid marker rescue transformation in Thermus thermophilus
 AU Hoshino, Takayuki; Maseda, Hideaki; Nakahara, Tadaatsu
 SO J. Ferment. Bioeng. (1993), 76(4), 276-9

L5 ANSWER 28 OF 44 CAPLUS COPYRIGHT 2002 ACS
 AN 1993:510559 CAPLUS
 TI Vectors for enzyme gene expression in thermophilic bacteria
 IN Nakayama, Noryuki
 PA Nippon Electric Co, Japan
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 DT Patent
 LA Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 05115285	A2	19930514	JP 1991-305537	19911025

L5 ANSWER 30 OF 44 CAPLUS COPYRIGHT 2002 ACS
 AN 1992:525544 CAPLUS
 TI Insertional mutagenesis in the extreme thermophilic eubacteria Thermus
 thermophilus HB8
 AU Lasa, I.; Caston, J. R.; Fernandez-Herrero, L. A.; De Pedro, M. A.;
 Berenguer, J.
 SO Mol. Microbiol. (1992), 6(11), 1555-64

L5 ANSWER 31 OF 44 CAPLUS COPYRIGHT 2002 ACS

AN 1992:190165 CAPLUS

TI Crystallization and preliminary crystallographic analysis of a thermostable mutant of kanamycin nucleotidyltransferase

0 AU Kanikula, Agnes M.; Liao, Hans H.; Sakon, Joshua; Holden, Hazel M.; Rayment, Ivan

SO Arch. Biochem. Biophys. (1992), 295(1), 1-4

L5 ANSWER 32 OF 44 CAPLUS COPYRIGHT 2002 ACS

AN 1991:465722 CAPLUS

0 TI Effect of temperature on the expression of wild-type and thermostable mutants of kanamycin nucleotidyltransferase in Escherichia coli

AU Liao, Hans H.

SO Protein Expression Purif. (1991), 2(1), 43-50

L5 ANSWER 33 OF 44 CAPLUS COPYRIGHT 2002 ACS

AN 1991:158413 CAPLUS

TI Increased efficiency of transformation of Bacillus stearothermophilus by a plasmid carrying a thermostable kanamycin resistance marker

AU Liao, Hans H.; Kanikula, Agnes M.

SO Curr. Microbiol. (1990), 21(5), 301-6

L5 ANSWER 35 OF 44 CAPLUS COPYRIGHT 2002 ACS

AN 1987:612925 CAPLUS

TI A series of Tn5 variants with various drug-resistance markers and suicide vector for transposon mutagenesis

AU Sasakawa, Chihiro; Yoshikawa, Masanosuke

SO Gene (1987), 56(2-3), 283-8

L5 ANSWER 36 OF 44 CAPLUS COPYRIGHT 2002 ACS

AN 1987:453118 CAPLUS

TI Nucleotide sequence of the kanamycin resistance determinant of the pneumococcal transposon Tn1545: evolutionary relationships and transcriptional analysis of aphA-3 genes

AU Caillaud, Frederic; Trieu-Cuot, Patrick; Carlier, Cecile; Courvalin, Patrice

SO MGG, Mol. Gen. Genet. (1987), 207(2-3), 509-13

L5 ANSWER 38 OF 44 CAPLUS COPYRIGHT 2002 ACS

AN 1986:473431 CAPLUS

TI Construction of plasmids for the transformation of Methanobacterium thermoautotrophicum

AU Feldman, Daniel; Yang, Shang Tian; Ho, Nancy W. Y.

SO Biotechnol. Bioeng. Symp. (1986), 15(Symp. Biotechnol. Fuels Chem., 7th, 1985), 235-40

L5 ANSWER 40 OF 44 CAPLUS COPYRIGHT 2002 ACS

AN 1985:40744 CAPLUS

0 TI Enzymic and nucleotide sequence studies of a kanamycin-inactivating enzyme encoded by a plasmid from thermophilic bacilli in comparison with that encoded by plasmid pUB110

AU Matsumura, Masazumi; Katakura, Yoshio; Imanaka, Tadayuki; Aiba, Shuichi

SO J. Bacteriol. (1984), 160(1), 413-20

L5 ANSWER 42 OF 44 CAPLUS COPYRIGHT 2002 ACS
AN 1981:205251 CAPLUS
TI The region controlling the thermosensitive effect of plasmid Rts1 on host growth is separate from the Rts1 replication region
AU Yamamoto, Tatsuo; Finver, Shelly; Yokota, Takeshi; Bricker, James; Kaji, Akira
SO J. Bacteriol. (1981), 146(1), 85-92

L8 ANSWER 8 OF 38 CAPLUS COPYRIGHT 2002 ACS
AN 1999:805655 CAPLUS
TI A set of temperature sensitive-replication/-segregation and temperature resistant plasmid vectors with different copy numbers and in an isogenic background (chloramphenicol, kanamycin, lacZ, repA, par, polA)
AU Hashimoto-Gotoh, T.; Yamaguchi, M.; Yasojima, K.; Tsujimura, A.; Wakabayashi, Y.; Watanabe, Y.
SO Gene (2000), 241(1), 185-191

=> d his

FILE 'CAPLUS' ENTERED AT 11:19:36 ON 28 AUG 2002

L1 9452 S KANAMYCIN
L2 886 S L1 (S) (RESISTANCE? (2W) GENE?)
L3 430 S L1 (S) (NUCLEOTIDYLTRANSFERASE? OR NUCLEOTIDYL? OR ?TRANSFERA
L4 1251 S L2 OR L3
L5 71 S L4 (P) (THERMOSTABLE OR (TEMPERATURE? (2W) SENSITIVE) OR THER
L6 30 S L5 AND (MUTANT OR MUTATE)
L7 30 S L5 AND (?MUTANT? OR ?MUTATE?)
L8 70 S L5 AND (?MUTANT? OR ?MUTATE? OR GENE?)
L9 26 S L2 (P) THERM?
L10 45 S L5 NOT L9
L11 22 S L10 NOT L7

L7 ANSWER 14 OF 30 CAPLUS COPYRIGHT 2002 ACS

AN 1993:229126 CAPLUS

TI Thermostable mutants of kanamycin
nucleotidyltransferase are also more stable to proteinase K, urea,
detergents, and water-miscible organic solvents

AU Liao, Hans H.

SO Enzyme Microb. Technol. (1993), 15(4), 286-92

L7 ANSWER 17 OF 30 CAPLUS COPYRIGHT 2002 ACS

AN 1992:190165 CAPLUS

TI Crystallization and preliminary crystallographic analysis of a
thermostable mutant of kanamycin
nucleotidyltransferase

AU Kanikula, Agnes M.; Liao, Hans H.; Sakon, Joshua; Holden, Hazel M.;
Rayment, Ivan

SO Arch. Biochem. Biophys. (1992), 295(1), 1-4

L7 ANSWER 21 OF 30 CAPLUS COPYRIGHT 2002 ACS

AN 1991:38434 CAPLUS

TI Does single-amino-acid replacement work in favor of or against improvement
of the thermostability of immobilized enzyme?

AU Koizumi, Junichi; Zhang, Min; Imanaka, Tadayuki; Aiba, Shuichi

SO Appl. Environ. Microbiol. (1990), 56(11), 3612-14

L7 ANSWER 22 OF 30 CAPLUS COPYRIGHT 2002 ACS

AN 1988:90894 CAPLUS

TI Role of tyrosine-80 in the stability of kanamycin nucleotidyltransferase
analyzed by site-directed mutagenesis

AU Matsumura, Masazumi; Yahanda, Saburo; Yasumura, Shigeyoshi; Yutani,
Katsuhide; Aiba, Shuichi

SO Eur. J. Biochem. (1988), 171(3), 715-20

L7 ANSWER 25 OF 30 CAPLUS COPYRIGHT 2002 ACS

AN 1986:621212 CAPLUS

TI Cumulative effect of intragenic amino acid replacements on the
thermostability of a protein

AU Matsumura, Masazumi; Yasumura, Shigeyoshi; Aiba, Shuichi

SO Nature (London) (1986), 323(6086), 356-8

L7 ANSWER 26 OF 30 CAPLUS COPYRIGHT 2002 ACS
AN 1986:567953 CAPLUS
TI Single amino acid replacements affecting the thermostability of
kanamycin nucleotidyltransferase
AU Matsumura, Masazumi; Kataoka, Shiro; Aiba, Shuichi
SO MGG, Mol. Gen. Genet. (1986), 204(2), 355-8

L7 ANSWER 27 OF 30 CAPLUS COPYRIGHT 2002 ACS
AN 1986:125702 CAPLUS
TI Isolation of a thermostable enzyme variant by cloning and selection in a
thermophile
AU Liao, Hans; McKenzie, Tim; Hageman, Robert
SO Proc. Natl. Acad. Sci. U. S. A. (1986), 83(3), 576-80

L7 ANSWER 28 OF 30 CAPLUS COPYRIGHT 2002 ACS
AN 1985:610831 CAPLUS
TI Screening for thermostable mutant of kanamycin
nucleotidyltransferase by the use of a transformation system for a
thermophile, Bacillus stearothermophilus
AU Matsumura, Masazumi; Aiba, Shuichi
SO J. Biol. Chem. (1985), 260(28), 15298-303

L11 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2002 ACS
AN 2000:673823 CAPLUS
TI Plasmid for Coryneform bacteria with temperature-sensitive replicon
IN Nakamura, Jun; Kanno, Sohei; Kimura, Eiichiro; Matsui, Kazuhiko;
Nakamatsu, Wataru
PA Ajinomoto Co., Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 23 pp.
DT Patent
LA Japanese

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000262288	A2	20000926	JP 1999-69896	19990316
	US 6303383	B1	20011016	US 2000-521668	20000308
	BR 2000001326	A	20010814	BR 2000-1326	20000315
	EP 1038966	A1	20000927	EP 2000-105326	20000316
PRAI	JP 1999-69896	A	19990316		

L11 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2002 ACS
AN 1997:496948 CAPLUS
TI A new Thermus-Escherichia coli shuttle integration vector system
AU Tamakoshi, Masatada; Uchida, Manabu; Tanabe, Kazuhiro; Fukuyama, Shiro;
Yamagishi, Akihiko; Oshima, Tairo
SO Journal of Bacteriology (1997), 179(15), 4811-4814

L11 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2002 ACS
AN 1995:78291 CAPLUS
TI Stabilization of an enzyme using thermophiles and their laboratory
evolution
AU Oshima, Tairo
SO Baioisaiensu to Indasutori (1994), 52(8), 639-41
DT Journal; General Review
LA Japanese

L11 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2002 ACS
 AN 1992:627354; CAPLUS
 TI Development of Thermus-Escherichia shuttle vectors and their use for
 expression of the Clostridium thermocellum celA gene in Thermus
 thermophilus
 AU Lasa, Inigo; De Grado, M.; De Pedro, M. A.; Berenguer, Jose
 SO J. Bacteriol. (1992), 174(20), 6424-31

L11 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2002 ACS
 AN 1992:100315 CAPLUS
 TI Development of plasmid cloning vectors for Thermus
 thermophilus HB8: expression of a heterologous, plasmid-borne
 kanamycin nucleotidyltransferase gene
 AU Mather, Michael W.; Fee, James A.
 SO Appl. Environ. Microbiol. (1992), 58(1), 421-5

L11 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2002 ACS
 AN 1985:449154 CAPLUS
 TI Generation and detection of enzyme variants with enhanced thermostability
 and activity
 IN Liao, Hans H.; McDonell, Michael W.; Gold, Lawrence M.; Hirsh, David I.
 PA Synergen Associates, Inc., USA
 SO Eur. Pat. Appl., 51 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	EP 138075	A1	19850424	EP 1984-111001	19840914
PRAI	US 1983-532765		19830916		